Claims:

1. (currently amended) A system for setting interrelated operating parameters of an implantable medical device, the system comprising:

a user interface having depictions of a plurality of interrelated operating parameters of an implantable medical device, the user interface depicting a range of values for each parameter wherein a dynamic change in one parameter is reflected in corresponding changes in the depiction of other parameters; and

means for: (i) maintaining a constraining relationship between said interrelated operating parameters when one of the parameters is changed, (ii) ignoring all other unrelated parameters, and (iii) preserving the constraint relations that existed before the dynamic change occurred.

2. (previously presented) A system according to claim 1 wherein said plurality of interrelated operating parameters maintain a mathematical relationship with one another.

3. (previously presented) A system according to claim 1 wherein said interrelated operating parameters define an operationally stable performance envelope for the implantable medical device and wherein upon the adjustment of one of said plurality of interrelated operating parameters at least one other parameter of said interrelated operating parameters is modified.

4. (previously presented) A system according to claim 2 wherein a plurality of programmable constraints preserves the relationship by causing said plurality of interrelated operating parameters to consistently respond to a change in one of said plurality of interrelated operating parameters.

5. (previously presented) The system of claim 1 wherein a change in a constrained parameters causes at least one other constraining parameter to change.

6.-12. (canceled)

13. (new) A method for setting interrelated operating parameters of an implantable medical device (IMD), the system comprising:

depicting upon a user interface a plurality of interrelated operating parameters of an implantable medical device (IMD) including a range of values for each interrelated operating parameter wherein when a dynamic change occurs in one parameter the dynamic change is reflected in corresponding changes in the depiction of other parameters;

maintaining a constraining relationship between said interrelated operating parameters when one of the parameters is changed;

ignoring possible changes to each parameter that does not include a constraining relation with one of the parameters is changed; and

preserving the constraint relations that existed before the dynamic change occurred.

14. (new) A method according to claim 13, wherein said plurality of interrelated operating parameters maintain a mathematical relationship with one another.

15. (new) A method according to claim 13, wherein said interrelated operating parameters define an operationally stable performance envelope for the implantable medical device and wherein upon the adjustment of one of said plurality of interrelated operating parameters at least one other parameter of said interrelated operating parameters is modified.

16. (new) A method according to claim 14, wherein a plurality of programmable constraints preserves the relationship by causing said plurality of interrelated operating parameters to consistently respond to a change in one of said plurality of interrelated operating parameters.

17. (new) A method according to claim 13, wherein a change in a constrained parameters causes at least one other constraining parameter to change.

18. (new) A computer readable medium encoded with executable instructions for setting interrelated operating parameters of an implantable medical device (IMD), the medium comprising:

executable instructions encoded into a computer readable medium for depicting upon a user interface a plurality of interrelated operating parameters of an implantable medical device (IMD) including a range of values for each interrelated operating parameter wherein when a dynamic change occurs in one parameter the dynamic change is reflected in corresponding changes in the depiction of other parameters;

executable instructions encoded into the computer readable medium for maintaining a constraining relationship between said interrelated operating parameters when one of the parameters is changed;

executable instructions encoded into the computer readable medium for ignoring possible changes to each parameter that does not include a constraining relation with one of the parameters is changed; and

executable instructions encoded into the computer readable medium for preserving the constraint relations that existed before the dynamic change occurred.

19. (new) A computer readable medium according to claim 18, wherein said plurality of interrelated operating parameters maintain a mathematical relationship with one another.

20. (new) A computer readable medium according to claim 18, wherein said interrelated operating parameters define an operationally stable performance envelope for the implantable medical device and wherein upon the adjustment of one of said plurality of interrelated operating parameters at least one other parameter of said interrelated operating parameters is modified.

21. (new) A computer readable medium according to claim 19, wherein a plurality of programmable constraints preserves the relationship by causing said plurality of interrelated operating parameters to consistently respond to a change in one of said plurality of interrelated operating parameters.

22. (new) A computer readable medium according to claim 18, wherein a change in a constrained parameters causes at least one other constraining parameter to change.